Project Title: Sensory Substitution Device for Hearing Impairment

Team Members:
Ryan Thome, Co-Team Leader thome@wisc.edu
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Amy Weaver, BSAC aweaver@wisc.edu
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Client:
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Advisor:
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Date: 09/15/06-9/21/06

Problem Statement:
The goal is to design and develop an auditory substitution device that through the use of a
digital hearing aid and vibro- or electro-tactile stimulation can substitute for regional
frequency hearing loss.

Statement of Team Goals:
1. Meet with client
2. Create Problem statement
3. Begin work on PDS
4. Begin research and design
   a) Research all possible background information.
   b) Research existing solutions
   c) Develop possible design solutions
5. Continue research, design, and testing
6. Write Midterm paper
7. Create PowerPoint presentation
8. Discuss possible final design alternative
9. Finalize design
10. Build and test prototype
11. Present final design

**Project Schedule:**
9/8/06 – Choose team and project, meet with client
9/15/06 – Background research, preliminary design ideas
9/22/06 – Continue background research, develop PDS
9/29/06 – Brainstorm
10/6/06 – Decide on design alternatives
10/13/06 – Work on mid-semester presentation and report
10/20/06 – Give mid-semester presentation, finalize mid-semester report
10/27/06 – Decide on final design
11/3/06 – 11/24/06 – Work on final design
12/1/06 – Finalize design and final presentation, begin work on final paper
12/8/06 – Give final poster presentation, finalize paper
12/15/06 – Final meeting with advisor

**Summary of Team Accomplishments:**
1. Continued with research, focusing on specific topics.
2. Created first draft of PDS

**Summary of Individual Accomplishments:**
1. Laura and Sarah met with Professor Tyler
2. Sarah wrote the progress report

**Upcoming Week’s Team Goals:**
1. Continue brainstorming preliminary design ideas
2. Get all information done so far up on website, including picture
3. Second draft on PDS, after input from our client and our advisor
4. Meet with Professor Tyler

**Difficulties:**
We have yet to encounter any major difficulties.

**Activities:**
Ryan – class meeting 1 hr
   background research 1 hr
   team meeting 1 hr

Sarah – class meeting 1 hr
   background research 1 hr
   meeting with Prof. Tyler 1 hr
   team meeting 1 hr
   progress report .5 hr

Amy - class meeting 1 hr
background research 1 hr
team meeting 1 hr

Laura - class meeting 1hr
background research 1 hr
meeting with Prof. Tyler 1 hr
team meeting 1 hr

Jack - class meeting 1 hr
background research 1 hr
team meeting 1 hr

**Team Total Hours for this week:** 17.5
**Cumulative Team Hours to date:** 28.5